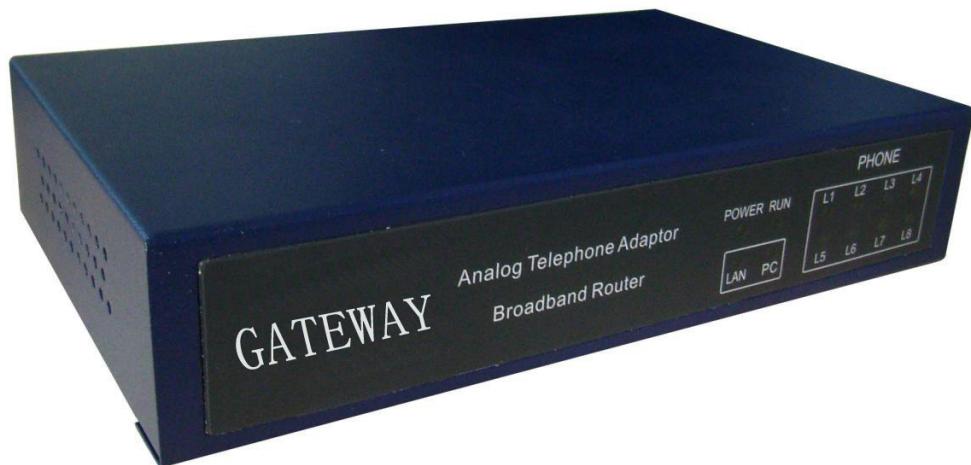


STEPHEN TECHNOLOGIES CO.,LIMITED

User Manual

Model: SVG800S VoIP ATA



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1 Product Introduction

1.1 General Information

An Analogue Telephone Adaptor (ATA) is an analogue-to-digital adaptor that allows you to use your standard telephone or telephone system. ATA is designed to realize voice communication over a broadband IP network. It offers high voice quality with minimal bandwidth requirement. No matter it could access to the public IP address or not, the device has the advantage of easy installation in simple or complex network. Multiple IP phones can also be installed in the same network with only one public IP address. It comes with enriched features for both network and phone applications, such as broadband router, DHCP, LAN Phone System.

The SVG800S IP ADAPTOR is an all-in-one VoIP integrated device, which is designed to be a total solution for VoIP Service providers. The SVG800S VoIP ATA is compatible with both SIP 2.0 and H.323 V4 protocols. People can connect this device to regular analog telephones to run its settings, or dial, receive, transfer calls. With a WAN port and a LAN port, the SVG800S VoIP ATA can be connected to the network connection as well as your computer. With 8 FXS ports, the SVG800S VoIP ATA is able to connect to 8 VoIP lines ports, which it is a best choice for your offices, enterprises, voice over ip solutions.

1.2 Protocol

TCP/IP V4 (IP V6 auto adapt)
ITU-T H.323 V4 Standard
H.2250 V4 Standard
H.245 V7 Standard
H.235 Standard (MD5, HMAC-SHA1)
ITU-T G.711 Alaw/ULaw, G.729A, G.729AB, and G.723.1 Voice Codec
RFC1889 Real Time Data Transmission
Proprietary Firewall-Pass-Through Technology
SIP V2.0 Standard
Simple Traversal of UDP over NAT (STUN)
Web-base Management
PPP over Ethernet (PPPoE)
PPP Authentication Protocol (PAP)
Internet Control Message Protocol (ICMP)
TFTP Client
Hyper Text Transfer Protocol (HTTP)
Dynamic Host Configuration Protocol (DHCP)
Domain Name System (DNS)

User account authentication using MD5
Out-band DTMF Relay: RFC 2833 and SIP Info

1.3 Hardware Specification

ARM9E Processor for high performance
DSP for voice codec and voice processing
Two 100M Based Ethernet ports in comply with IEEE 802.3 for both LAN and PC connection.
LEDs for Ethernet port status
8 FXS ports
Ethernet Bridge

1.4 Software Specification

LINUX OS
Built-in HTTP for accessing internal parameters
PPPoE dial-up
NAT Broadband Router functions
DHCP Client
DHCP Server
Firmware On-line upgrade
Phone Book
Memory Dial
Caller ID
Multiple Language Support
With Accounting Function

1.5 List of the Package

- a) One SVG800S IP ADAPTOR
- b) One power cable
- c) One Ethernet cable (3m)

1.6 View of the Appearance



1) Phone 1 to Phone 8

It is connected with a standard touch-tone analog telephone.

6) LAN

It is used to connect the Ethernet cable.

7) PC

It is used to connect a computer or other terminal.

8) POWER Socket

It is the power port, connected with the power supply.

9) Power Switch

Using to turn on or turn off the power.

2 Installation

2.1 Installation Steps

The SVG800S IP ADAPTOR has eight PHONE ports (Phone1 to 8), one NETWORK port and one PC port. The PHONE ports can register to the same SIP or H.323 account or eight different SIP or H.323 accounts.

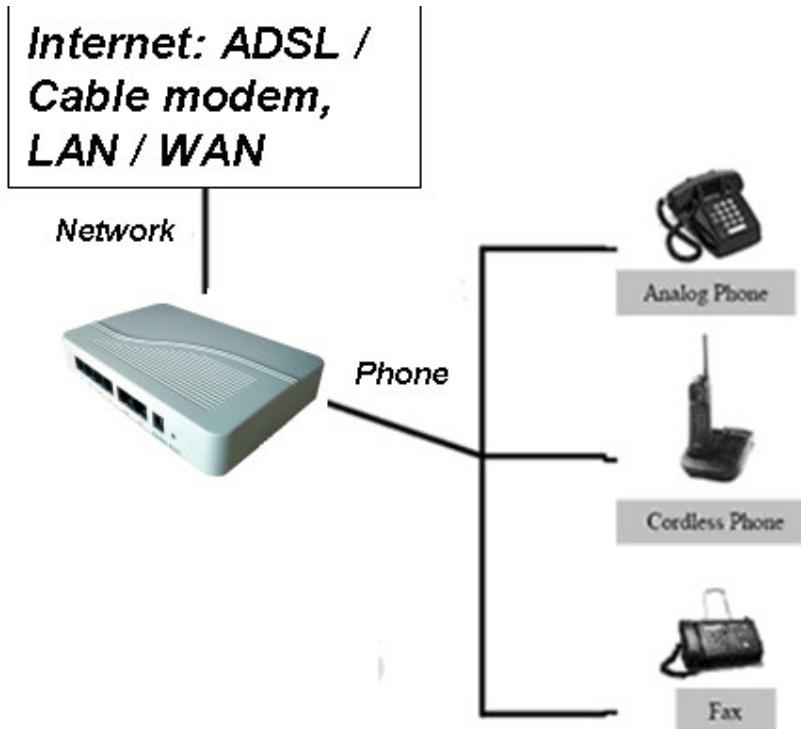
Please follow the following steps to install an SVG800S IP ADAPTOR:

- a) Connect a standard touch-tone analog telephone to the PHONE port.
- b) Insert the Ethernet cable into the LAN port of SVG800S IP ADAPTOR and connect the other end of the Ethernet cable to an uplink port (a router or a modem, etc.)

- c) Connect a PC to the PC port of SVG800S IP ADAPTOR.
- d) Insert the power cable into the SVG800S IP ADAPTOR and power supply.

2.2 Connection Diagram

The interconnection diagram is as follows:



3 Basic Operations

3.1 Star Command

There are two types of Star Commands. One is factory predefined star command for phone setup and information purpose. The other is for phone operation. The first digit of a command must be "*" and the rest must be the natural number from 0 to 9. There are also some commands with operands.

3.1.1 Star Commands for Phone Configuration

The star commands for phone configuration generally contains three digits or more. This kind of star command is shown in the table below.

Star(*) Command	Function
*01	Read LAN Port IP
*02	Read PC Port IP
*03	Set LAN Port IP. Pick up the handset, press *03, and then follow the instruction of the phone to set the IP address.
*04	Set PC Port IP. Pick up the handset, press *04, and then follow the instruction of the phone to set the IP address.
*09987456	Reset IP: LAN Port IP: 192.168.0.1 (The new terminal are DHCP default) PC Port IP: 192.168.5.1(The new terminal are bridge mode.)
*11983185922	Reset system configuration. Return to the default configuration.

Note: These commands are factory preset and cannot be modified.

3.1.2 Star Commands for Phone Operation

The star commands for phone operation are 3-digit long at least and some contains operands. These star commands are shown in the table below.

Star(*) Command	Function
*12	Switch to VOIP line
*21	Switch to PSTN line
*42	Hold the current call / Release the Hold call
*41	Call Transfer to another VoIP Number

3.2 Set up

The setup of the SVG800S IP ADAPTOR can be done via auto-provisioning if the service provider supports this feature. Local setup is supported via built-in web pages. To access the web pages, the LAN or PC port IP address is required. The SVG800S IP ADAPTOR is equipped with voice prompts to read LAN port and PC port IP addresses via the Phone port.

Please refer to the table in section 3.1.1 for detailed information. While setting up, please follow the instructions as follows :

- a) When the SVG800S IP ADAPTOR fails to set the LAN Port and PC Port IP addresses, it reports 0 on *01 or *02 Star Commands.
- b) When the PC port is configured into Bridge Mode, it also report zero.
- c) *03 and *04 can be dialed to set the LAN Port IP address and PC Port IP address. For example, if you want to set the PC Port's IP address to 192.168.5.10, please press the following keys orderly : "*04192.168.5.10#". Note : enter Symbol "*" replace "." and end with "#".
- d) A special star (*) command (*09987456) can be dialed to reset both LAN port and PC port to the factory default IP. By the new firmware, the default setting was the LAN port is DHCP mode, the PC port is bridge mode.
- e) The star command *11983185922 can be dialed to reset the system configuration or return to the default configuration.

3.3 Make Phone Calls

3.3.1 Using Star (*) Commands for Phone Operations

Refer to the table in section 3.1.2 for detailed values of the star commands for phone operation.

3.3.1.1 Call-waiting/flash

When you are talking on the phone and another call comes in on your phone extension, a short tone sounds in your handset. You can give the waiting indications such as accepting the call, or neglecting the call.

Note: This function only support by SIP protocol.

3.3.1.2 Call Hold

Call Hold lets you put a caller on hold for a certain period of time. There are two kinds of call hold:

- a) When you are in the conversation with a party, you can press "*42" on the phone keypad to place the first party on hold. You will hear a dial tone. Enter a new phone number to make another call. After finishing the second call, you can press the "*42" again to return to the former call on hold.
- b) When you are talking on the phone and another call comes in on your phone extension. To temporarily put the present caller on hold and answer the new incoming call, press *42 and you will hold the current call. And press *42 again, you will return to the former call.

Note: This function only support by SIP protocol.

3.3.1.3 Call-transfer

If A and B are in the process of a call, A can transfer A-B call to B-C call. There are two kinds of transfer, which are attended transfer and unattended transfer.

a) Attended Transfer

When a call is in progress and you agree with him/her to have a call transfer, press “*41”, and when you hear dial tone, dial another phone number to announce a transfer. If the third party agrees, you hang up your phone.

b) Unattended Transfer

When a call is in progress and you agree with him/her to have a call transfer, press “*41”, and when you hear dial tone, dial another phone number. When you hear ring tone, just hung up your phone without a conversation with the third party.

Note: This function only support by SIP protocol.

3.3.1.4 Call-forward

Call- forward is an arrangement whereby a call coming into an unanswered or busy line will be FORWARDED to a predesignated line. Contact the Telephone Services office for implementation of this feature.

Please refer to the “Call Settings” in section 4.2.3.3 for the configuration instructions.

Note: This function only support by SIP protocol.

3.3.2 Placing a Call

a) Dial the number and wait for 5 seconds. Or

b) Dial the number and press “#”

3.3.3 Send and Receive VoIP Calls

Users can send and receive calls from the VoIP.

To receive VoIP calls, just take the phone off hook when it rings.

3.4 LED Light Pattern Indication

The following table shows the LED light pattern indication.

LED	DESCRIPTION
RUN	1. When the device is booting up, the LED will flash 100ms ON and 100ms OFF.

	<ol style="list-style-type: none"> 2. When the device is connected with the server, the LED will flash 1s ON and 1s OFF. 3. If the ATA does not boot up, the LED will not flash. 4. Normal boot up and connecting time is approximately 30 seconds.
LAN	<ol style="list-style-type: none"> 1. When the LAN receptacle is connecting with the network, the LAN LED will light up continuously. (The LED will not light up if the network connection is unavailable) 2. If there is data transmitting through the ATA, the LAN LED will blink. (Example: During a VoIP call, the LED will keep blinking.)
PC	<ol style="list-style-type: none"> 1. When the PC receptacle is connecting with the network, the PC LED will light up continuously. (The LED will not light up if the network connection is unavailable.) 2. If there is any data transmitting through this receptacle, the PC LED will keep blinking.
L1	<ol style="list-style-type: none"> 1. L1 LED will be off when the phone is on hook. 2. L1 LED will be on when the phone is off hook.
L2	<ol style="list-style-type: none"> 1. L2 LED will be off when the phone is on hook. 2. L2 LED will be on when the phone is off hook.

4 Configuration Guide

Before configuring the SVG800S IP ADAPTOR, first you should obtain the LAN or PC IP address through voice prompt. Follow section 3.1 for detailed information to get the LAN or PC IP Address.

SVG800S IP ADAPTOR has an embedded Web server that will respond to HTTP GET/POST requests. It also has embedded HTML pages that allow users to configure the SVG800S IP ADAPTOR through a Web browser.

4.1 Access the Web Configuration Menu

The SVG800S IP ADAPTOR HTML configuration menu can be accessed via LAN or PC port:

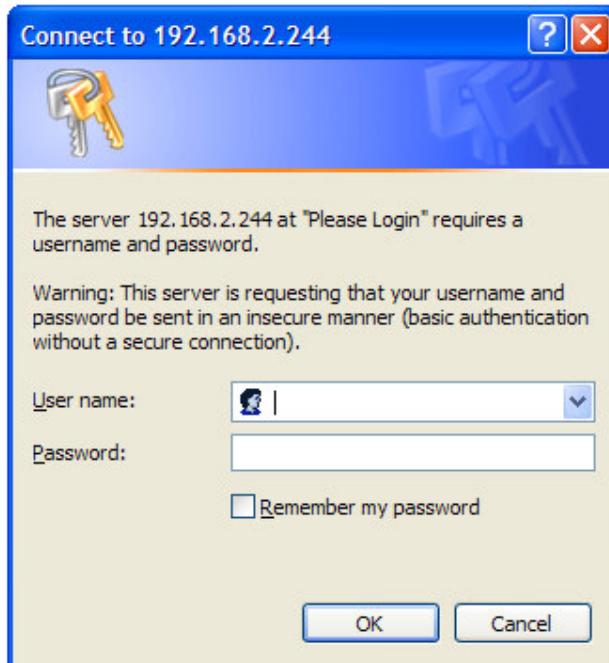
With the LAN access is enabled, get the LAN IP address of the SVG800S IP ADAPTOR as described in section 3.1.1. The SVG800S IP ADAPTOR's Web Configuration page can then be accessed by entering the URI into a web browser.

For example Use the LAN port IP address login the SVG800S WEB page. Hypothesis the LAN port IP is 192.168.2.244, then run IE and input *192.168.2.244* or *http://192.168.2.244* to IE's address field:

<http://192.168.2.239>



Once this HTTP request is entered and sent from a Web browser, the SVG800S IP ADAPTOR will respond with the following login screen:



To login the Administration Configuration page, please enter "admin" in the User Name field and "dbl#admin" (default) in the Password field and then click on the OK button. The PC Browser then shows the window below and you have successfully entered the SVG800S IP ADAPTOR HTTP WEB Interface.

Status			
Phone Information		Network Information	
Phone Number		LAN Port	192.168.2.244
Serial Number		PC Port	In Bridge Mode
Firmware Version	A34HS-3.07-18	PPPoE	Disabled
Hardware Revision	2fxs	Default Route	192.168.2.254
Line Register 1 Status	LOGOUT	DNS Server	202.96.134.133
Line Register 2 Status	LOGOUT		

Administration configuration includes not only the end user configuration, but also advanced configuration such as SIP configuration, and other miscellaneous configurations. The default page is for Status settings as shown on the right hand side of the window. To change to a different menu choice, just click on one of the choices on the left hand menu column. The advanced configuration page is shown in the following sections.

4.2 Status

As shown in the figure above, there are four main fields to be configured on the Status page.

4.2.1 Phone Information

A. Serial Number

Each ATA has a unique serial number assigned by the factory such as SVG800S05600082. This number is important for centralized configuration, technical support, and warranty repair. This number is printed in the back of the ATA and is associated with your software license. This field is read-only.

B. Firmware Version

Firmware version refers to the software version of the ATA such as A34HS-3.07-18, which is used to identify the software version.

C. Hardware Revision

This field shows terminal's hardware type.

D. Phone Status

This field shows the status of Line's connection status. If the connection is successful, this field displays LOGIN. Otherwise show LOGOUT.

4.2.2 Network Information

A. LAN Port Configuration

This field shows the current IP address used by LAN port such as 192.168.100.119. The ATA LAN port can be configured to obtain its IP address by DHCP or the IP address can be set statically, used mainly while using the ATA with a DSL line.

B. PC Port Configuration

This field shows the current IP address used by PC port. In the Bridge Mode, the ATA allows a PC connected to it to pass through to the network. No other PC Configuration settings are set; the Advanced, Gateway, Primary and Secondary DNS field settings are not required and can be ignored.

C. PPPoE

This field shows the status of your broad band connection with Dial-up networking in the ATA has not been enabled. The ATA is designed to be used over the Internet with a broadband connection.

D. Default Route

Default Route is the IP address of a router that is used when a device sends a packet to another subnet or when a device sends a packet to an unknown destination.

E. DNS Server

Each zone is served by at least one Domain Name Server, which contains the complete data for the zone. (To make the DNS tolerant of server and network failures,

most zones have two or more authoritative servers.) A name server retains the address and routing information for IP users.

4.3 Configurations Options

Click on the “Configurations”, the web page will pop-up a subordinate options. Click on “Preference” in the left menu of the configuration web, and the screen will be displayed as follows:

Preference		
Language(语言)	English	<input type="checkbox"/> Enable <input checked="" type="checkbox"/> Disable
Time Zone	GMT+8	<input type="checkbox"/> Enable <input checked="" type="checkbox"/> Disable
Time Server	pool.ntp.org	<input type="checkbox"/> Enable <input checked="" type="checkbox"/> Disable
Auto-provision	<input type="checkbox"/> Enable <input checked="" type="checkbox"/> Disable	<input type="checkbox"/> Enable <input checked="" type="checkbox"/> Disable
Pound(#) Key as Delimiter	<input type="checkbox"/> Enable <input checked="" type="checkbox"/> Disable	<input type="checkbox"/> Enable <input checked="" type="checkbox"/> Disable
Auto-dial Timeout		
Network Tones	China	<input type="checkbox"/> Enable <input checked="" type="checkbox"/> Disable
Fax	<input type="checkbox"/> Enable <input checked="" type="checkbox"/> Disable	<input type="checkbox"/> Enable <input checked="" type="checkbox"/> Disable
Line Info Server		
China Phone Code	<input type="checkbox"/> Enable <input checked="" type="checkbox"/> Disable	<input type="checkbox"/> Enable <input checked="" type="checkbox"/> Disable

4.3.1 Language

Select web provisioning language as English or Chinese. For example, if your present language used is English, please click “English” in the “Language” menu, When the terminal was reboot the web page will display all information in English.

4.3.2 Time Zone and Time Server

This parameter controls how the date/time displayed , it will be adjusted according to the specified time zone. The ATA uses Network Time Protocol (NTP) to retrieve date and time information from an NTP server (Time Server) . The time is in $GMT \pm$ offset. For example, Pacific Standard Time is $GMT-8$, and Pacific Daylight Time is $GMT-7$.

Time Zone	GMT+8
Time Server	pool.ntp.org

Time Server is the Network Time Protocol server where the IP Phone retrieves date and time information. This field shows the NTP server IP address such as *timekeeper.isi.edu*.

4.3.3 Auto-provision

Allow central provisioning of SVG800S. Auto-provision is the automatic configuration of devices without manual intervention and without any need for software configuration programs or jumpers. Ideally, auto-provision devices should just "Plug and Play". Auto-provision has been made common because of the low cost of microprocessors and

other embedded controller devices. It includes Auto-provision Server and Auto-update.

Auto-provision	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Provision Server	<input type="text"/>
Provision Interval	<input type="text"/>

This is the special service only. It must support by Auto-provision Server.

4.3.4 Pound(#Key and Auto-dial Timeout

If you want the terminal send out your telephone number shortly, please click the Pound(#Key enable. If it was disable, the terminal will wait period of time after a telephone number is entered

Pound(#) Key as Delimiter	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Auto-dial Timeout	<input type="text"/>

Set the wait time before auto dialing after a telephone number is entered. Auto dial time is the period of time from dialing the end number to sending out your dial information, before the called phone rings.

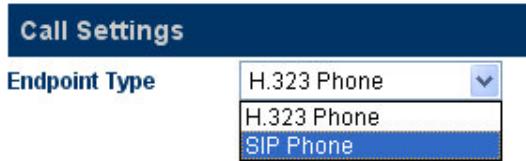
4.3.5 Network Tone

The Network Tone is the dial tone one hears when he or she picks up the handset to make a call, and the ring back tone when he or she dial to a number. You can select the network tones from the following tones as shown in the following screen, depending on the country where the ATA is located.

Network Tones	<input type="text" value="China"/> <div style="border: 1px solid black; padding: 2px; display: inline-block;"> China Australia China Hong Kong New Zealand United Kingdom United States Customized </div>
---------------	---

4.4 Call Settings

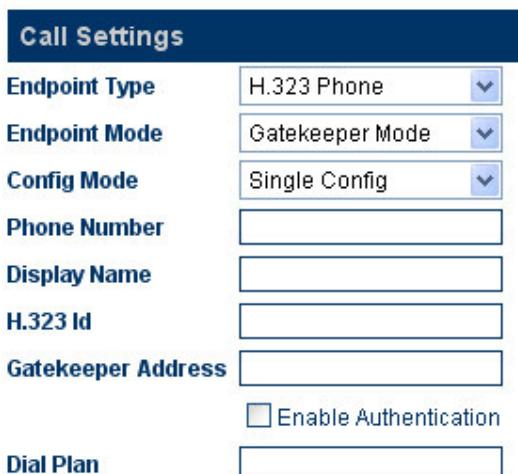
This chapter is about the basic settings to set up the internet connection through the ATA, concerning two endpoint types: H.323 and SIP. The configuration screen is shown as follows.



4.4.1 H.323 Phone

H.323 is the international standard for multimedia communication over packet-switched networks, including LANs, and the Internet. There are three kinds of FXS mode to configure: 1) Single Configuration; 2) Configuration by line ; 3) Configuration by Group .

4.4.1.1 Single Configuration



In this configuration mode, you can give the two phones connected to the ATA the same configurations in the following items.

A. H.323 Phone Number

H.323 phone number is a sequence of decimal digits that is used for identifying a telephone line in a telephone network. For example, 5551234 is a valid phone number. On the Call Settings screen, enter the phone number in the Phone Number field.

B. Display Name

This field shows the H.323 client display name. It is what the call party sees on his phone LCD when you call them such as John Smith.

C. H.323 ID

H.323 ID is an alphanumeric string representing names, e-mail address, etc.. It may be a user name, conference name, e-mail name, or other identifier.

D. Gatekeeper Address

Gatekeeper address is used for finding the correct gatekeeper. It maybe an IP address such as 192.168.2.197 or a domain name like *gk.yourisp.com*. On the Call Settings

screen, enter the gatekeeper address in the Gatekeeper Address field. If your gatekeeper used nonstandard signaling port (The default port is 1719) , you can config it with gatekeeper address field such as 192.168.2.197:2000 or gk.your.com:2000 (the 2000 is your gatekeeper's signaling port).

F. Enable Auth

<input type="checkbox"/> H.235 Auth H.235 Id Password	<input type="text"/> <input type="text"/>
--	--

If you click the “Enable Authentication” field, you will have to configure the Auth ID and Password. A pair of authentication ID and password is usually needed to use the ATA.

4.4.1.2 Configuration by Line

In this mode, you will have more advance control over the two FXS ports. Firstly, phone 1 and phone 2 will refer to different service providers for related service. Secondly, you can bind the phone numbers or the FXS ports with each phone. That is to say, one phone terminal can be bound with one phone numbers. You will have to set the bellow items into different values. The configuration page is shown as below. The option setting please follow section “Single Configuration” for detailed information.

Call Settings	
Endpoint Type Endpoint Mode Config Mode <input checked="" type="radio"/> Line 1 <input type="radio"/> Line 2 <input type="radio"/> Line 3 <input type="radio"/> Line 4 Phone Number H.323 Id Gatekeeper Address <input type="checkbox"/> H.235 Auth H.235 Id Password Dial Plan	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

4.4.1.3 Configuration by Group

In this mode, each FXS port can be bound with two H.323 service providers , That is to say, one phone terminal can be bound with two phone numbers. The configuration page is shown as below. The option setting please follow section “Single Config” for detailed information.

Call Settings

Endpoint Type	H.323 Phone
Endpoint Mode	Gatekeeper Mode
Config Mode	Config by Group
<input checked="" type="radio"/> Group 1 <input type="radio"/> Group 2 <input type="radio"/> Group 3 <input type="radio"/> Group 4	
Phone Number	<input type="text"/>
H.323 Id	<input type="text"/>
Gatekeeper Address	<input type="text"/>
<input type="checkbox"/> H.235 Auth	
H.235 Id	<input type="text"/>
Password	<input type="text"/>
Dial Plan	<input type="text"/>
Activated Lines in Group 1	
<input type="checkbox"/> L1 <input type="checkbox"/> L2 <input type="checkbox"/> L3 <input type="checkbox"/> L4	

4.4.1.4 Advance Settings

Click on “Advance Settings” in the H.323 menu, the configuration screen of advance settings will be displayed as follows. In this part, you will have more advance control over the H.323 signaling.

Advance Settings<<

RAS Port	<input type="text"/>
Q.931 Port	<input type="text"/>
H.245 Port	<input type="text"/>
Fast Start	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Transfer Mode	<input type="text"/>
DTMF Signaling	Inband
Signaling QoS	None
Signaling NAT Traversal	None

A) RAS Port

RAS Port is connected to an unreliable channel, which is used to convey the registration, admissions, bandwidth change, and status messages between two H.323 entities.

B) Q.931 Port (Call Signaling Port)

Call Signaling Port is connected to a reliable channel used to convey the call setup and teardown messages between two H.323 endpoints.

C) H.245 Port (Media Control Ports)

Media control port is the port or port range used by the H.245 media control protocol. Note: the H.245 media control protocol uses TCP.

D) Fast Start

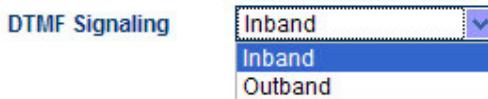
Enable or disable the Fast Start procedure described in H.225.0. This option is mainly used for testing and solving compatibility problems. If not sure, let this option unselected.

E) Transfer Mode

F) DTMF Signaling

1) DTMF TYPE

DTMF TYPE is used for telephone signaling over the line in the voice frequency band to the call switching center. DTMF means that two groups of tone with different frequencies are united into 16 kinds of dial tone. The telecommunication station, switch or the phone service such as 1860 identify these special tones through DSP analysis to confirm the keys dialed by user. There are two DTMF types: inband DTMF type and outband DTMF type.



Inband DTMF type transfers these special dial tones together with the speech tone without doing any special processing to them. So there is not any type as to inband DTMF.

Outband DTMF type transfers these special dial tones by some special method to confirm its correctness. The special method is the so called protocol such as RFC2833 and SIP information.

2) DTMF Payload Type

DTMF Payload Type is used to carry telephony tones and telephony signals. By using a distinct dynamic RTP payload type in the same RTP stream as the media, it is possible to carry DTMF tones, fax-related tones, standard subscriber line tones, country-specific tones and trunk events.

G) Signaling Qos

4.4.1.5 H.323 Direct Mode

4.4.2 SIP Phone

SIP (Session Initiation Protocol) is a relatively new Internet standard. It is a simple, low-level protocol for initiating interactive communication sessions between users. These sessions can involve two or more users. Such sessions include voice, video, chat, interactive games, and virtual reality.

There are two configuration modes: 1) Single Configuration; 2) Configuration by Line

Call Settings

Endpoint Type	SIP Phone <input type="button" value="▼"/>	Advance Settings>>
Config Mode	Single Config <input type="button" value="▼"/>	Media Settings>>
Phone Number	<input type="text"/>	
Display Name	<input type="text"/>	
SIP Proxy	<input type="text"/>	
SIP Registrar	<input type="text"/>	
Home Domain	<input type="text"/>	
Authentication Id	<input type="text"/>	
Password	<input type="text"/>	
Dial Plan	<input type="text"/>	
Call Forward Type	Not Forward <input type="button" value="▼"/>	
Call Forward Number	<input type="text"/>	

Billing Support

4.4.2.1 Single Configuration

In this FXS mode, you can give the two phones connected to the ATA the same configurations in the following items.

A) Phone Number

This field use fill in the SIP client authentication ID. It is the telephone number (or extension) you assigned to the VoIP SIP Phone such as 123456. enter the phone number in the Phone Number field.

B) SIP Proxy

The SIP proxy server acts as the call manager of all the incoming or outgoing calls to and from the SIP Phone. The proxy address is the IP address or domain name of your IP-PBX or VoIP service switch. For example, gk.yourisp.com or 192.168.2.197 may be a proxy address.

If your SIP proxy used nonstandard signaling port (the default port is 5060), you can config it with SIP proxy address field such as 192.168.2.197:2000 or gk.your.com:2000 (the 2000 is your SIP proxy signaling port).

C) SIP Registrar Server

A registrar is a SIP server responsible for keeping track of where a user is contactable, and providing information to callers. This field shows the SIP registrar server IP address. If your SIP registrar server used nonstandard signaling port (the default port is 5060), you can config it with SIP registrar server address field such as 192.168.2.197:2000 or gk.your.com:2000 (the 2000 is your SIP registrar server signaling port).

D) Home Domain

This field use fill in the IP address of the home domain. Although the IP address is easy to remember, the user still finds it hard to remember because it is long and has no association with its geographical position or organizational relationship. In order to solve

the problem, Internet defines the Domain Name System (DNS) by using ASCII string.

E) Authentication ID

This field use fill in the SIP client authentication ID. Authentication mainly is the identification of the user. The IP messages between two parties use an authentication mechanism based on IDs and passwords. The authentication IDs and passwords are the credentials to determine whether the IP Proxy should accept or reject a session invitation.

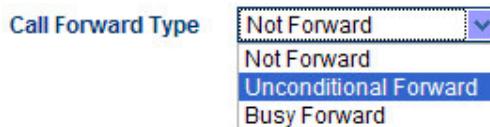
F) Password

This field use fill in the SIP client authentication password.

G) Call Forward

1) Forward Type

Select the forward method as follows: Not Forward, Unconditional Forward, Forward on Busy.



- 1) Not Forward means you will not forward the incoming calls.
- 2) If you select Unconditional Forward, you will set the phone into forwarding any call without any conditions.
- 3) When you are in the process of a call, a third call comes in. If you select Forward on Busy in the configuration, the third call will be forwarded automatically. However, if your phone is idle when a call comes in, the call will not be forwarded.

2) Forward Number

This field shows the SIP client forward number. Take an example to explain it. If user A transfers A-B call to B-C call, the number of user C is the forward number.

H) Display Name

This field shows the SIP client display name. It is what the call party sees on his phone LCD when you call them such as John Smith.

4.4.2.2 Configuration by Line

In this mode, you will have more advance control over the two FXS ports. Firstly, phone 1 and phone 2 will refer to different service providers for related service. Secondly, you can bind the phone numbers or the FXS ports with each phone. That is to say, one phone terminal can be bound with two phone numbers. You will have to set the above items into different values. The configuration page is shown as below.

Call Settings

Endpoint Type	SIP Phone
Config Mode	Config by Line
<input checked="" type="radio"/> Line 1	<input type="radio"/> Line 2
<input type="radio"/> Line 3	<input type="radio"/> Line 4
Phone Number	
Display Name	
SIP Proxy	
SIP Registrar	
Register Expired	
Outbound Proxy	
Home Domain	
Authentication Id	
Password	
Dial Plan	
Call Forward Type	Not Forward
Call Forward Number	

4.4.2.3 Advance Settings

Click on “Advance Settings” in the SIP menu, the configuration screen of advance settings will be displayed as follows. In this part, you will have more advance control over the SIP signaling.

Advance Settings<<

Signaling Port	5060
Outbound Proxy	
Operation Mode	
Protocol Mode	
NAT Keep-alive	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Advance Timing>>	
DTMF Signaling	Inband
Signaling QoS	None
<input type="checkbox"/> Enable RC4 Encryption	
Signaling NAT Traversal	None

A) Signaling Port (SIP Local port)

SIP local port is the local UDP port , the SIP proxy could have a conversation with SIP

proxy server or other SIP user.

B) Outbound Proxy

This field shows the SIP outbound proxy IP address. In most cases, the SIP outbound proxy is placed alongside the firewall and is the way to let SIP traffic pass from the internal network to the Internet. Please ask your network administrator for these parameters.

C) Operation Mode

D) Protocol Mode

E) NAT Keep-alive

<input checked="" type="radio"/> NAT Keep-alive Register Expiry(seconds) No Answer Expiry NICT Expiry(seconds) ICT Expiry(seconds) Retransmit T1(ms) Retransmit T2(ms)	<input checked="" type="radio"/> Enable <input type="radio"/> Disable Advance Timing<< <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
---	--

F) DTMF Signaling

1) DTMF TYPE

DTMF TYPE is used for telephone signaling over the line in the voice frequency band to the call switching center. DTMF means that two groups of tone with different frequencies are united into 16 kinds of dial tone. The telecommunication station, switch or the phone service such as 1860 identify these special tones through DSP analysis to confirm the keys dialed by user. There are two DTMF types: inband DTMF type and outband DTMF type.

DTMF Signaling Outband	<input type="text"/>
Outband DTMF type RFC 2833	<input type="text"/>
RTP Payload Type <input type="text"/>	

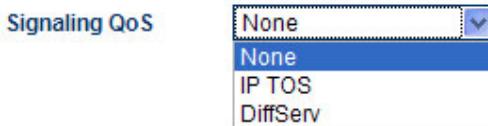
Inband DTMF type transfers these special dial tones together with the speech tone without doing any special processing to them. So there is not any type as to inband DTMF.

Outband DTMF type transfers these special dial tones by some special method to confirm its correctness. The special method is the so called protocol such as RFC2833 and SIP information.

2) DTMF Payload Type

DTMF Payload Type is used to carry telephony tones and telephony signals. By using a distinct dynamic RTP payload type in the same RTP stream as the media, it is possible to carry DTMF tones, fax-related tones, standard subscriber line tones, country-specific tones and trunk events.

G) Signaling QoS



C. SIP Local Port

SIP Local Port is the local UDP port used by the SIP client to communicate with SIP proxy and other SIP user agents.

E. Enable Call Wait

Select “Enable Call Wait”, you will enable your phone connected to the ATA to have the function of call waiting.

4.4.3 Media Setting

Click on “Media Settings” in the “Call Setting” menu, the configuration screen of advance settings will be displayed as follows. In this part, you will have more advance control over the media.

Media Settings<<

RTP Port (range)	<input type="text"/>
Packet Length (ms)	<input type="text"/>
Jitter Buffer Mode	<input type="text" value="Fixed"/>
Minimun Jitter	<input type="text"/>
Maximum Jitter(soft limit)	<input type="text"/>
Media QoS	<input type="text" value="None"/>
<input type="checkbox"/> Enable RC4 Encryption <input type="checkbox"/> Enable Fast Encryption	
Media NAT Traversal	<input type="text" value="None"/>
Audio Codec Preference>>	

A) RTP Ports

RTP (Real Time Protocol) Port is the target transport address for the RTP audio stream to be sent to.

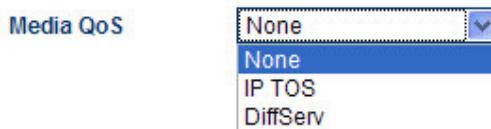
B) Packet Length

it means the time of single network packet sent out . The default time is 20ms.

C) Jitter Buffer

Jitter Buffer Mode	<input type="text" value="Fixed"/>
Minimun Jitter	<input type="text"/>
Maximum Jitter(soft limit)	<input type="text"/>

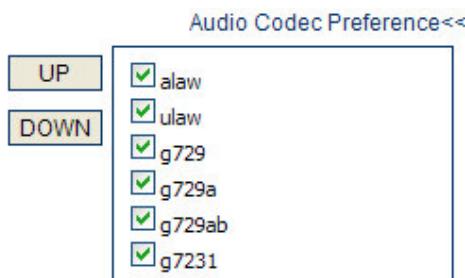
D) Media Qos



RTP TOS is a service field in UDP IP packets carrying a RTP data. Enter RTP TOS if your network supports DiffServ and can prioritize the packets to maintain voice quality.

4.4.4 Codec Preference

The Codec Preference is inside the media setting menu. Click on “Codec Preference” in the “Call Settings → Media Setting” configuration page, the “Codec Preference” screen will be displayed as below.

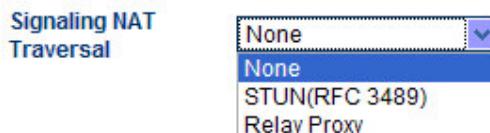


Codec preference is the order of voice codec. The default one is up transmitting, which is the set mode for common users.

4.4.5 NAT Traversal

4.4.5.1 Signaling NAT Traversal

Click on the “Signaling NAT Traversal” in the “Call Settings” configuration page’s “Advance Settings”, the “NAT Traversal” screen will be displayed as follows.



Signaling NAT Traversal can make and receive calls through any type of NAT device. There are three kinds of NAT traversal:

A) None

None means there is no traversal mechanism supported.

B) Port-forwarding Support

Port-forwarding is the action of forwarding network ports on the LAN interface to PCs or servers in LAN network. Virtual servers use this technique to allow external users, in most

cases via internet, to reach services provided by internal servers such as FTP, HTTP, Telnet, etc.

Port-forwarding support includes gateway address and echo server address. Gateway is a communication device that connects two different networks. Echo server is a standard service implementing the ECHO protocol.

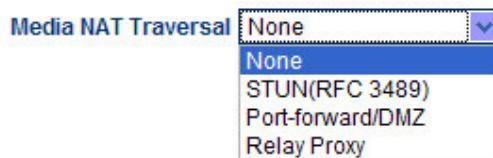
C) Relay Proxy

Relay proxy is a proprietary NAT traversal technology which enables VoIP terminals to achieve successful deployment in most LAN environments. It includes address, ports, user name, and password.

Note: This RELAY proxy is only compatible with the RELAY Server software developed by Chima independently. It was free software, you can come down on us.

4.4.5.2 Media NAT Traversal

Click on the “Media NAT Traversal” in the “Call Settings” configuration page’s “Media Settings”, the “NAT Traversal” screen will be displayed as follows.



Media NAT Traversal can make and receive calls through any type of NAT device. There are four kinds of NAT traversal:

A) None

None means there is no traversal mechanism supported.

B) Port-forwarding Support

Port-forwarding is the action of forwarding network ports on the LAN interface to PCs or servers in LAN network. Virtual servers use this technique to allow external users, in most cases via internet, to reach services provided by internal servers such as FTP, HTTP, Telnet, etc.

Port-forwarding support includes gateway address and echo server address. Gateway is a communication device that connects two different networks. Echo server is a standard service implementing the ECHO protocol.

C) STUN (RFC 3489)

STUN stands for Simple Traversal of UDP over NAT. It is a protocol which enables the SIP phone to detect the presence and type of NAT behind which the phone is placed. SIP Stun Server refers the SIP address of the Stun Server.

D) Relay Proxy

Relay proxy is proprietary NAT traversal technology which enables VoIP terminals to achieve successful deployment in most LAN environments. It includes address, ports, user name, and password.

Media NAT Traversal	<input type="button" value="Relay Proxy"/>
Address	<input type="text"/>
Port	<input type="text"/>
User Name	<input type="text"/>
Password	<input type="text"/>
<input type="checkbox"/> Encryption	
Relay Mode	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3

The RELAY can run in three mode :

Mode 1: The media use UDP packets and encrypt;

Mode 2: The media use UDP packets and encrypt; The UDP packets use single UDP port;

Mode 3: The media use TCP packets and encrypt; The TCP packets can choice single TCP port;

The mode 2 and mode 3 is the passiveness, the port was designation from RELAY SERVER.

Note: This RELAY Proxy is only compatible with the RELAY Server software developed by Chima independently. It was free software, you can come down on us.

4.4.6 Billing Support

SVG800S can support two kinds billing mode. First is using billing software, otherwise is using the Reverse Signal.

If you using the billing software, click the “Billing Support” by the “Call Setting” and select the Billing software’s version by the “Billing Version”.

<input checked="" type="checkbox"/> Billing Support	
Billing Server	<input type="text"/>
Billing Version	<input type="radio"/> V1.0 <input type="radio"/> V2.0

The billing software version2.0 was support fixed billing computer. If you using the version2.0, you can appoint the billing computer’s IP, enter the IP into Billing Server field. The terminal can support billing by normal Reverse Signal. It was without config.

4.4.7 Dial Plan

SVG800S apply to the rule dialing out the telephone number ,user can set the rule in the panel of Call Settings.

Dial Plan	<input type="text"/>
-----------	----------------------

4.4.7.1 Basic Dial Rule

1. If there are many rules, it can be separated with symbol '|'. For example: "00:-00|0:-0+86|:+86755"
2. System try to match the rule from left to right and stop match when meet the satisfied rule, otherwise continue.
3. Rule grammar model is "AA:-aa+bb", For example: "0:-0+86". In front of ":" , "AA" is the number to match, and what is operated is realized by the following. If it math the rule, the system will delete the symbol of "aa", and add "bb"; or continue. There is nothing after the symbol of ":" , such as "00:", it means system do nothing and quit when match the symbol. System will operate directly when no string before symbol of ":" , such as ":+86755".
4. There is no limited range for the dialing out rule of the match definition, the language is "[A-B]A:-aa+bb" or "A[A-B]:-aa+bb".

Template:

1. Rule: "0|:+0755"
 - A. input "02083185711" , output "02083185711"
 - B. input "83185700" , output "075583185700"
2. Rule: "00:-00|0:-0+86|:+86755"
 - A. input "008522343318", output "8522343318";
 - B. input "02083185711", output "862083185711";
 - C. input "83185700", output "8675583185700".
3. Rule: "00|0:-0+0086|:+0086755".
 - A. input "008522343318", output "008522343318";
 - B. input "02083185711", output "00862083185711";
 - C. input "83185700", output "008675583185700".
4. Rule: "0|1[3-9]:+0|[2-8]:+0755|:+0755".
 - A. input "076322343318", output "076322343318";
 - B. input "13044557766", output "013044557766";
or input "13644557766", output "013644557766"
 - C. input "23185700", output "075523185700".
or input "73185700", output "075573185700"

4.4.7.2 How to limit code bit

If you want to limit the bit of every telephone number in the SVG800S, you could set the dial rule as follow: "AAXXXXXX:-aa+bb" , "AAXXXXXX" is the description for the matching code and it's exact length.

configuration:

If you set the rule of above example of 3 as follow:

Before: "00:0:-0+0086|:+0086755".

Now: "00:0:-0+0086|[1-8]xxxxxxxx:+0086755".

Now, the length of local telephone number is limited in 8 bit ,first bit is range from 1 to 8.

Then the gateway will add 0086755 in front of telephone number and dial out.

The second example:

Rule: "0:|13:+0|:+0755"

This rule will automatically add "0" before cell phone, and add 0755 before local dial.

Set as follow:

"0:|13[0-9]xxxxxxxx:+0|[1-8]xxxxxxxx:+0755"

This rule hold the same function while cell phone number will be limited in 11 bit and local dial is 8 bit. In the rule, the string of "13[0-9]xxxxxxxx" means the number from 130xxxxxxxx to 139xxxxxxxx while "[1-8]xxxxxxxx" means local telephone number from 1xxxxxxxx to 8xxxxxxxx .

Attention: Once the bit of the number is defined, it will be abandoned when the code is longer than the definition length

The third example:

Rule: "0:|13[0-9]xxxxxxxx:+0|[1-8]xxxxxxxx:+0755"

We dial out the number "88990011" or "8899001133", and the really we dial is the same one, which is "075588990011".

Attention:

This rule don't support the gateway of the version before A34HS-3.09-18.

This rule don't support the gateway of the version before A34HS-3.07-18.

4. 5 User Command

The SVG800S have four User Commands, in the "Phone setting" web like below screen:



You can change the VoIP and PSTN switch command.

The other two commands:

The Hold Key command: *42

The Transfer Key command: *41

Note: these values are preset by the factory and can't be revised.

4.5.1 Start VoIP dial

The default number is *12. If the line is default PSTN, press *12 and you will switch to VoIP line.

Note: it was the FXO GATEWAYS only.

4.5.2 Switch to PSTN

The default number is *21. If the line default is VoIP, press *21 and you will switch to PSTN line.

Note: it was for the FXO GATEWAYS nly.

3 Hold Key

The default number is *42. If you are in the process of a call, press *42 and you will put the call on hold.

4.5.4 Transfer Key

The default number is *41. If you press *41 in the process of a call, you will transfer the call to another terminal.

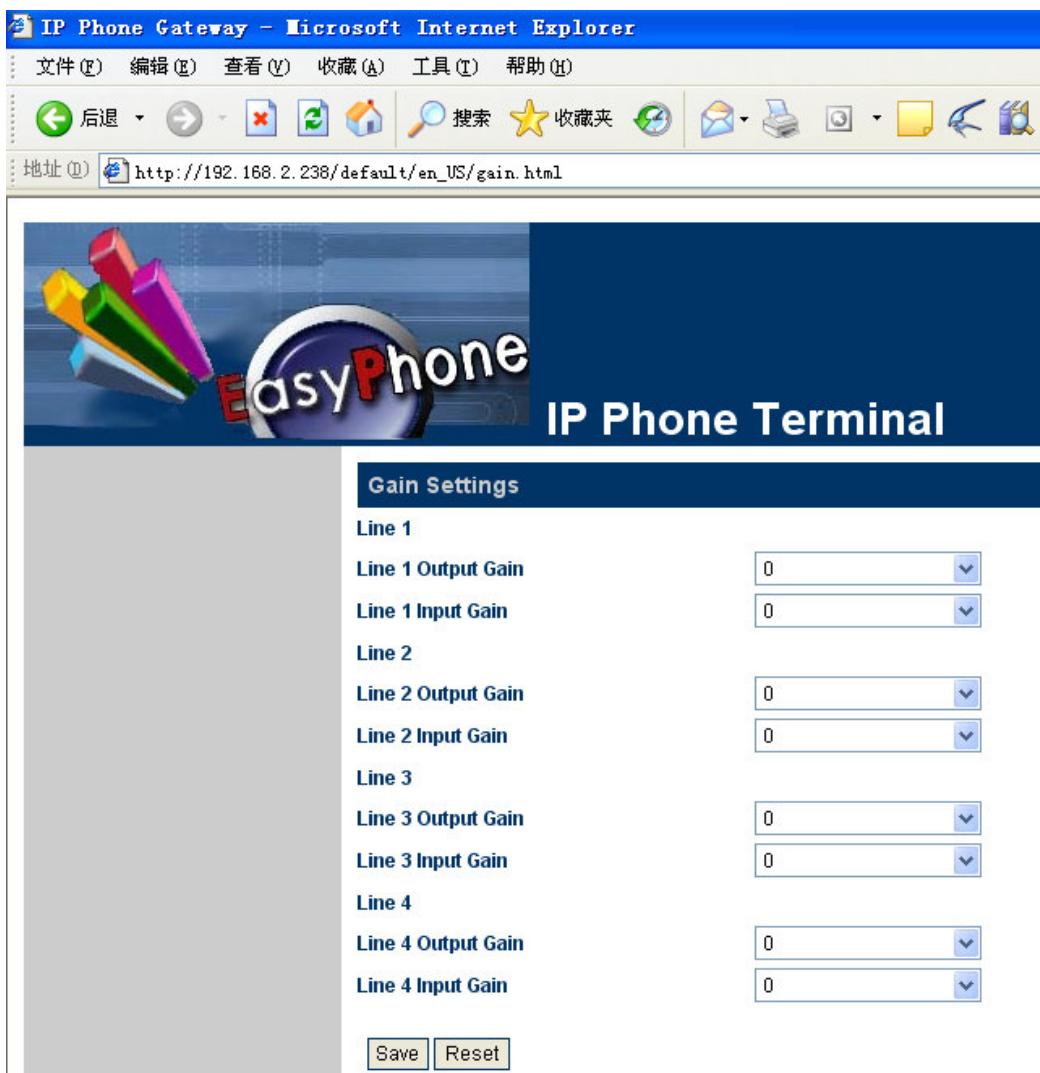
4.5.5 Star Command Input Timeout

While inputting a star command, after inputting “*”, please go on to input the number in a certain time. If you exceed this time, the system will not wait for your input. The default value is 60 seconds, these values are preset by the factory and can't be revised.

4.6 Gain Setting...

The gain setting is cautious to using. It was a hidden web page. If you need to adjust the phone volume. Please rewrite the URL to http://xxx.xxx.xxx.xxx/default/en_US/gain.html and enter. The IE will pop-up a GAIN SETTINGS screen.

You can adjust the volume of the two phones to different values. The range you can adjust is from 5 to -5.



Note: The range of the Input Gain can induce the terminal can not dial the phone number. If you meet this phenomenon and you adjusted it, Please resume or lessen the range of the Input Gain.

4.7 Network Configurations

Click on Network Configurations in the left menu of the Configuration web and the network configurations screen will be displayed as below.



The Network Configurations screen allows you to set up the IP addresses of the LAN and PC port, Bridge or Router mode (by selecting or deselecting Bridge Mode), default

Gateway Address, and Primary and Secondary DNS server IP addresses. It includes LAN port configurations and PC port configurations.

4.7.1 LAN Port configurations

The SVG800S LAN port can be configured to obtain its IP address by DHCP or the IP address can be set statically (used mainly when using the ATA with a DSL line). There are three modes to configure LAN port: 1) DHCP, 2) Static IP, 3) PPPoE.

Network Configuration

LAN Port	<input style="width: 150px; height: 25px; border: none; background-color: #f0f0f0; border: 1px solid #ccc;" type="button" value="PPPoE"/> <input style="width: 150px; height: 25px; border: none; background-color: #f0f0f0; border: 1px solid #ccc;" type="button" value="DHCP"/> <input style="width: 150px; height: 25px; border: none; background-color: #f0f0f0; border: 1px solid #ccc;" type="button" value="Static IP"/> <input style="width: 150px; height: 25px; border: none; background-color: #f0f0f0; border: 1px solid #ccc;" type="button" value="PPPoE"/>
802.1q VLAN	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
VLAN Id	<input type="text"/>
VLAN QoS	<input type="text"/>
Advance<<	
Ethernet(MAC) Address	<input type="text"/>
IP Broadcast Address	<input type="text"/>

1) DHCP

When you connect to the network through DHCP, the ATA is automatically assigned an IP address by the router. So you can get the LAN port IP address from the DHCP server.

2) Static IP

Network Configuration

LAN Port	<input style="width: 150px; height: 25px; border: none; background-color: #f0f0f0; border: 1px solid #ccc;" type="button" value="Static IP"/>
IP Address	<input type="text"/>
Subnet Mask(optional)	<input type="text"/>
Default Route	<input type="text"/>
Primary DNS	<input type="text"/>
Secondary DNS(optional)	<input type="text"/>

In a typical geographically determined network, users input telephone numbers manually. If you obtain a static IP address from your ISP, you can assign it to the ATA LAN port by clicking the Static IP Address Manually, and then entering the IP Address, Subnet Mask, and Default Route.

3) PPPoE

Network Configuration

LAN Port	PPPoE
User name	<input type="text"/>
Password	<input type="password"/>

PPPoE, point-to-point protocol over Ethernet, is a network protocol for encapsulating PPP frames in Ethernet frames. It is used mainly with cable modem and DSL (Digital Subscriber Line) services. Click PPPOE, and you can set user name and user password.

4) . Advance...

Click Advance and you will see the following two items: Hardware address and Broadcast address.

Advance<<

Ethernet(MAC) Address	<input type="text"/>
IP Broadcast Address	<input type="text"/>

Hardware Address is an address used to enter the MAC address in XX: XX: XX: XX: XX: XX format.

Broadcast Address is an address used to communicate with the other computers connected to the PC side of the ATA.

4.7.2 PC port configurations

PC port is configured to make a connection of the network and ATA. There two modes to configure a PC port: Bridge Mode and Static IP.

PC Port	Static IP
IP Address	Bridge mode
Subnet Mask	Static IP
DHCP Server	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Starting Address	<input type="text"/>
Ending Address	<input type="text"/>
Static DNS(optional)	<input type="text"/>
Advance<<	
Ethernet(MAC) Address	<input type="text"/>
IP Broadcast Address	<input type="text"/>

1) Bridge Mode

In the Bridge Mode, the ATA allows a PC connected to it to pass through to the network. No other PC Configuration settings are set; the Advanced Settings, Gateway, Primary and Secondary DNS field settings are not required and will be ignored.

2) Specify an IP Address Manually

Click Static IP, and enter IP Address and Subnet Mask.

PC Port	Static IP
IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
DHCP Server	<input type="radio"/> Enable <input checked="" type="radio"/> Disable

3) Enable DHCP Service

DHCP Server	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Starting Address	<input type="text"/>
Ending Address	<input type="text"/>
Static DNS(optional)	<input type="text"/>

To Enable DHCP Service, you have to know the starting address, which is used to start the service; and the ending address, which is used to end this service. The SVG800S's DHCP server must running by PC Port using Static IP mode.

4) Advance...

Click Advance and you will see the following two items: Hardware address and Broadcast address.

Advance<<	
Ethernet(MAC) Address	<input type="text"/>
IP Broadcast Address	<input type="text"/>

Hardware Address is an address used to enter the MAC address in XX: XX: XX: XX: XX: XX format.

Broadcast Address is an address used to communicate with the other computers connected to the PC side of the ATA.

4.7.3 Primary DNS

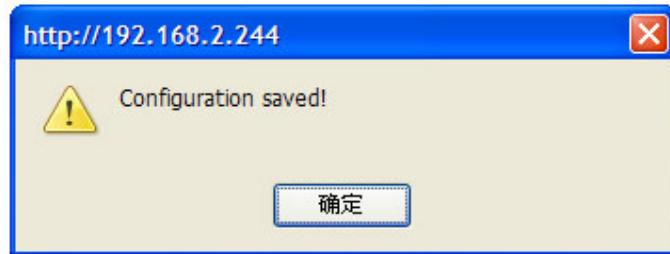
DNS is the abbreviation for domain name server, domain name system. A database of Internet names and addresses that translates the names to the official Internet Protocol numbers and vice versa; the distributed name-and-address mechanism used in the Internet. Primary DNS is the primary DNS server IP address. You can obtain this from your ISP (For example: 202.67.156.221). If PPPoE Dialup Networking is used, the Primary DNS will be obtained automatically from the ISP. This entry can be left blank.

4.7.4 Secondary DNS

It is the secondary DNS server IP address that will be used in the event that the primary DNS server IP address fails or is not available. You can obtain this from your ISP (For example: 202.67.156.222). If PPPoE Dialup Networking is used, the Secondary DNS will be obtained automatically from the ISP. This entry can be left blank.

4.8 Save Configuration

Once a change is made, users should click on the “Save Configuration” button in the Configuration page. Otherwise, your configuration will not take effect. The ATA will then display the following screen to confirm that the changes have been saved.

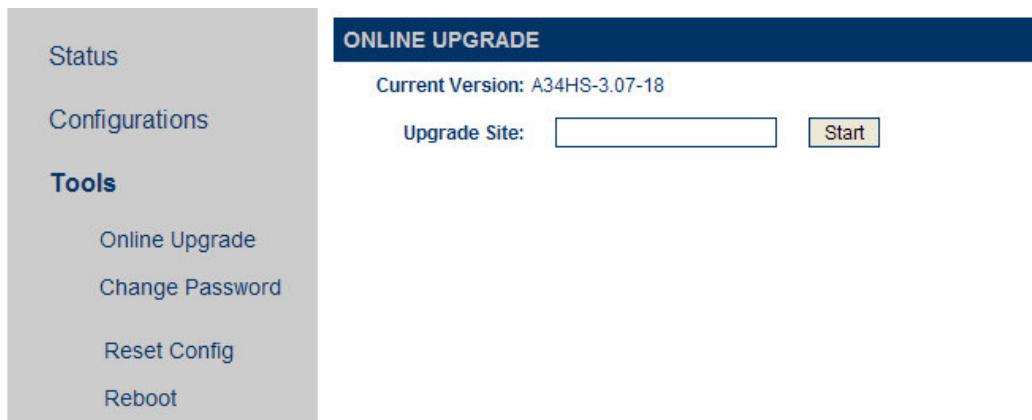


4.9 Discard Changes



4.10 Tools Menu

Click on the “Tools”, the web page will pop-up a subordinate options and the screen will be displayed as follows:



4.10.1 Online Upgrade

WARNING! Performing an online upgrade is for experienced users or administrators only! Click Online Upgrade. Enter the IP address or domain name of the upgrade server and package name: <http://202.96.136.145/update/A34HS-3.07-18.pkg>, And then click Start.



WARNING! When the terminal was updating , please don't cut the power. It will destroy the terminal.

4.10.2 Change Password

User Level	
New Password:	<input type="text"/>
Confirm Password:	<input type="text"/> <input type="button" value="Change"/>
Administration Level	
New Password:	<input type="text"/>
Confirm Password:	<input type="text"/> <input type="button" value="Change"/>

A) User Password

The ATA supports multiple levels of user administration. The user password is set to allow you to configure the phonebook and other user administrative tasks. The default is 1234. You can change it according to your own wish.

B) Administrator Password

The administrator password is set to allow you to modify all configuration items assigned to the ATA. The default is admin. You can change it according to your own wish..

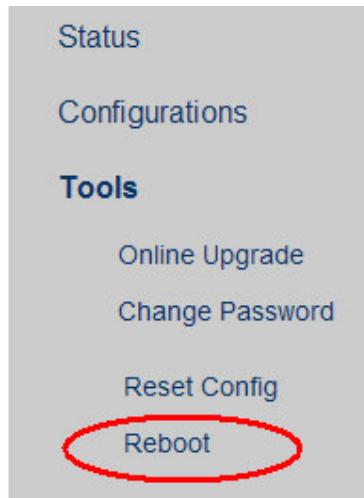
4.10.3 Reset Configuration

Click on this field to reset the configuration. When you choose this function, the terminal will auto reboot and all the personal setting will lost. The terminal will restore to the factory's setting.



You can use the star command to achieve the function.

4.10.4 Reboot the Device



Click on this field to reboot the device.

5 Products Parameter

Characteristics of the hardware	Parameter	Remarks
Type	SVG800S	Can be customized
Processor	ARM9E 133MHz	
DSP	VDS924PM4 x 2 200MHz	
RAM	16M	
FLASH	8M	
Power	AC220V	
Consumption	The maximum 10 W	
LED	Operate, network , circuit	
Network card	100/10BASE-T ×2	
Weight	2000 grams	(WHITOUT DC ADAPTER)
Working temperature	0—42°C	
Working humidity	40%—90% not congealed	
Colour	Blue	
FXS port	8	24V feed, 48V shaking bell

6 Manufactory Parameter

Parameter		Default
Network	LAN	DHCP
	PC	Bridge mode
Password	admin	dbl#admin or admin
	user	1234
Time Zone		GMT+8

The default star command please refer to the table in section 3.1.1 for detailed information.
This default parameter are unsuitability the customization's products.

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